## **PARIA RIVER BASIN**

## 09382000 PARIA RIVER AT LEES FERRY, AZ

LOCATION.--Lat 36° 52'20", long 111° 35'38", in NW<sub>1/4</sub>NE<sub>1/4</sub> sec. 13, T.40 N., R.7 E., Coconino County, Hydrologic Unit 14070007, on left bank 0.6 mi northwest of Lees Ferry, and 1.1 mi upstream from mouth.

**DRAINAGE AREA**.--1,410 mi<sup>2</sup>.

PERIOD OF RECORD.--Oct. 1923 to current year.

REVISED RECORDS.--WSP 1925: 1958(M), drainage area.

**GAGE**.--Water-stage recorder. Datum of gage is 3,123.68 ft above sea level. Prior to Oct. 5, 1925, nonrecording gage at site 2,000 ft upstream at different datum. Oct. 13,1925, to Sept. 11, 1929, nonrecording gage at present site and datum.

Time

REMARKS.--Records fair except for estimated daily discharges, which are poor. Diversions above station for irrigation of about 3,300 acres, mostly in southern Utah.

**EXTREMES FOR PERIOD OF RECORD.**—Maximum discharge, 16,100 ft<sup>3</sup>/s Oct. 5, 1925, gage height, 16.3 ft, from floodmark, from rating curve extended above 2,000 ft<sup>3</sup>/s on basis of float-area measurement of peak flow; maximum gage height, 16.65 ft Sept. 9, 1980; minimum daily discharge, 1 ft<sup>3</sup>/s in most years prior to 1931.

Discharge (ft<sup>3</sup>/s) Gage height (ft)

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 1,400 ft<sup>3</sup>/s and (or) maximum (\*):

Date

				Sept. 7	Sept. 7 1130 *554		*554	*7.36				
Minimum daily discharge, 2.4 ft <sup>3</sup> /s Aug. 13.												
			DISCHA	RGE, CUBIC	FEET PER		WATER Y Y MEAN V	EAR OCTOBER ALUES	2001 TO	SEPTEMBER	2002	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1 2	4.9 4.9	8.7 9.1	16 14	23 22	7.7 8.4	13 11	4.4 4.5	3.7 3.8	3.4 3.1	2.9	2.7	3.1
3	4.8	9.1	18	20	7.4	9.4	5.1	4.1	3.5	3.0	47	3.2
4	4.8	9.0	17	19	10	11	4.9	4.0	3.6	3.2	e32	3.4
5	5.0	9.0	18	19	13	15	5.2	3.8	3.4	3.1	e6.2	3.4
6	5.1	9.3	15	15	16	15	5.4	3.9	3.4	3.2	e4.6	4.2
7 8	10 5.8	9.9 10	14 15	16 20	16 17	14 14	5.3 5.4	3.7 3.5	3.4 3.1	2.8	e3.7 3.1	e157 e342
9	13	14	14	20	18	15	5.3	3.5	2.8	2.8	2.9	e153
10	11	14	13	20	15	11	5.5	3.8	2.9	2.8	2.8	e41
11	7.3	17	15	18	12	11	4.9	3.6	3.2	2.9	2.7	e18
12	6.1	16	17	15	15	12	4.8	3.7	3.3	2.9	2.6	e14
13 14	7.0 7.3	15 15	15 9.9	17 18	18 18	10 11	4.8 5.4	3.9 4.0	3.4 3.4	2.8	2.4	67 25
15	8.4	16	7.4	16	17	7.9	5.5	3.9	3.2	2.7	2.6	15
16	8.5	15	e6.2	17	16	8.3	4.5	3.9	3.0	2.8	2.7	9.8
17	8.9	15	e14	17	16	12	4.5	3.6	3.1	2.9	2.5	7.3
18	8.8	14	e17	e12	17	13	4.4	3.7	3.0	2.9	2.5	6.5
19	8.1	14	9.6	e10	17	11	4.7	3.8	3.1	3.1	2.5	6.2
20	7.7	14	10	e9.0	16	10	5.3	3.8	3.3	3.1	3.3	6.2
21 22	7.4 7.8	14 14	11 13	e10 e10	15 15	9.5 8.7	5.2 4.9	3.7 3.6	3.0	3.1	3.6 2.7	5.6 5.4
23	8.0	14	16	21	14	7.9	4.5	4.0	3.0	2.8	2.7	5.4
24	7.2	15	14	9.9	14	7.2	4.4	4.0	3.3	2.8	2.8	5.0
25	7.6	23	11	8.8	14	7.2	4.0	4.1	3.2	4.4	2.8	4.7
26	7.5	22	12	10	13	7.6	3.9	4.1	3.2	3.1	2.8	4.7
27	7.9	16	13	12	12	6.9	3.9	4.0	3.2	3.0	2.7	4.5
28 29	8.3 8.5	12 9.5	16 27	19 29	13	6.2 4.9	4.1 3.9	3.9 3.7	3.2 3.1	2.8	2.9 3.0	4.3 37
30	8.5	16	30	19		4.6	3.8	3.6	3.0	2.8	3.0	e163
31	8.7		25	17		4.6		3.5		2.8	3.0	
TOTAL	234.8	408.6	463.1	508.7	400.5	309.9	142.4	117.9	95.8	91.5	166.3	1127.7
MEAN	7.574	13.62	14.94	16.41	14.30	9.997	4.747	3.803	3.193	2.952	5.365	37.59
MAX	13 4.8	23 8.7	30 6.2	29 8.8	18 7.4	15 4.6	5.5 3.8	4.1 3.5	3.6	4.4	47 2.4	342 3.0
MIN AC-FT	466	810	919	1010	7.4	615	282	234	2.8 190	2.6 181	330	2240
CTATT CT	דרכי הד M	ONTUIV MEA	מידיגרו זוג.	י∩ם אואידיים ע	TENDO 1021	- 2002	טע שאידו	ER YEAR (WY)				
MEAN	30.28	23.33	20.91	22.49	37.46	38.50	20.68	10.46	7.192	24.14	53.63	53.01
MAX (WY)	288 1926	123 1958	69.4 1967	96.7 1969	242 1980	216 1979	93.3 1979	52.4 1934	58.3 1972	172 1936	237 1932	424 1927
MIN	5.99	10.1	8.81	8.03	14.3	8.86	4.75	2.03	1.97	2.32	4.51	4.18
(WY)	1956	1991	1931	1931	2002	1972	2002	1927	1926	1939	1976	1968
SUMMARY	Y STATIST	ICS	FOR	2001 CALEN	IDAR YEAR	1	FOR 2002	WATER YEAR		WATER YEAR	S 1924 -	2002
ANNUAL	TOTAL			5954.2			4067.					
ANNUAL				16.31	=		11.	.14		28.47		
	r annual annual m									65.1		1980
	ANNUAL M DAILY M			189	Jun 27		342	Sep 8			Sep 13	
	DAILY ME				Jun 13			.4 Aug 13		1.0	Jun 25	1926
ANNUAL	SEVEN-DA	Y MINIMUM			Jun 16		2.	.5 Aug 13		1.0	Jul 16	
		AC-FT)		11810			8070			20620		
	CENT EXCE			28 12			17 7.			42 14		
	CENT EXCE			3.6			2.			3.7		
		-		0			2.					

e Estimated

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## 09382000 PARIA RIVER AT LEES FERRY, AZ—CONTINUED WATER-QUALITY RECORDS

PERIOD OF RECORD.--Oct. 1948 to Sept. 1976, Sept. 1990 to current year.

**INSTRUMENTATION**.--Automatic-pumping sampler since Sept. 1990.

**REMARKS.**—Suspended-sediment total and sand discharge computed from sample data and by interpretation of a sample based suspended-sediment and streamflow discharge curve. Record for days when instantaneous discharge over the crest of the dam exceeds 30 ft<sup>3</sup>/s from Sept. 1990 to current year.

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001 DAILY MEAN VALUES

						D11121		020				
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1470	e24600				476						
2		e9930				390						
3		e5560										
4												
5												
_												
6 7					200							
					389	939						
8					577	11900						
9						4690	445				e79900	
10						11000					e21600	
11	26500					12400					15400	
12	e7000					4850						
13						1900					16800	
14						e804					18700	e8370
15						e469				e25900	7300	
16												
17												e17600
18												
19												
20												
21												
22	102000					1120						
23	e426000					2010						
24	e384000					2070						
25	e16400					1750						
26	3070					1370			24200			
27	69000								e32600			
28	1310000											
29	e102000											
30	e45000											
31	e64200											
	1200											
MAX												
MIN												

e Estimated

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3											7750	
4											e1400	
5												
5												
6												
7												e32200
												e32200
8												
9												e77700
10												e10700
11												
12												
13												14400
14												
15												
16												
17												
18												
19												
20												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												16400
30												e46900
31												
MAX												
MIN												
NITIA												

e Estimated

## 09382000 PARIA RIVER AT LEES FERRY, AZ—CONTINUED

SEDIMENT DISCHARGE, SUSPENDED, SIEVE DIAM. GREATER THAN .062 MM (TONS/DAY)
WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	e1250				41						
2		e451				19						
3		e16										
4												
5												
6												
7					51	55						
8					58	1080						
9						291	31				e19400	
10						1300					e1370	
11	3890					1590					985	
12	e1120					346						
13						72					433	
14						e15					918	e868
15						e7.7				e2280	36	
16												
17												e1210
18												
19												
20												
21												
22	44100					29						
23	e201000					50						
24	162000					71						
25	2390					72						
26	111					44			981			
27	14200								e3030			
28	426000											
29	e8740											
30	e2330											
31	e11200											

e Estimated

SEDIMENT DISCHARGE, SUSPENDED, SIEVE DIAM. GREATER THAN .062 MM (TONS/DAY)
WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3											1210	
4											e26	
5												
6												
7												e7040
8												e40400
9												e5150
10												e154
11												
12												
13												1590
14												
15												
13												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												3320
30												e8530
31												
31												

e Estimated